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Docket No.: NY-NIAD 216-US2-DIV

Application No. 10/825,405

Amendment dated June 2, 2008

Reply to Office Action of May 29, 2008

**AMENDMENTS TO THE CLAIMS**

Claims 1-12. (Canceled)

Claim 13. (Currently amended) A method for increasing leptin levels in a subject in need of improved immune function, skin epitheliation, hair follicle cycling, or inhibition of tumor formation, comprising administering to said subject an amount of nicotinic alkyl ester sufficient to increase leptin levels in said subject and improve immune function, improve skin epitheliation, improve hair follicle cycling, or inhibit tumor formation, wherein the alkyl chain of said nicotinic acid alkyl ester contains from 8 to 22 ~~1 to 22~~ carbon atoms.

Claim 14. (Previously presented) The method of claim 13, wherein said subject is in need of improved immune function.

Claim 15. (Previously presented) The method of claim 13, wherein said subject is in need of improved skin epitheliation.

Claim 16. (Previously presented) The method of claim 13, wherein said subject is in need of improved hair follicle cycling.

Claim 17. (Previously presented) The method of claim 13, wherein said subject is in need of inhibition of tumor formation.

Claim 18. (Previously presented) The method of claim 13, wherein said alkyl chain contains 12 or 14 carbon atoms.

Claim 19. (Previously presented) The method of claim 13, wherein said nicotinic acid alkyl ester is administered orally.

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Claim 20. (Previously presented) The method of claim 13, wherein said nicotinic acid alkyl ester is administered topically.

Claim 21. (Previously presented) The method of claim 13, comprising administering more than one nicotinic acid alkyl ester.